

Michael P. Angarone, DO

Born: November 30, 1971: Maywood, IL

Citizenship: United States

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Division of Infectious Diseases
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Education

June 1995	University of Illinois- Urbana/ Champaign, B.S. Microbiology
June 2002	Chicago College of Osteopathic Medicine, D.O. Medicine

Graduate Medical Education

July 2002-June 2005	Loyola University Medical Center, Internal Medicine Internship and Residency
July 2005-June 2006	Loyola University Medical Center, Internal Medicine Chief Resident
July 2006-July 2009	Northwestern Memorial Hospital Infectious Diseases Fellowship

Postdoctoral Research Training

July 2008-July 2009	Northwestern University, Research Assistant Oncology/Immunology
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Board Certification and Medical Licensure

2008-2011	Licensed Physician, State of Illinois, license #036-114094
2015-2025	Diplomat, American Board of Internal Medicine, #264970

2008-2018	Diplomat in Infectious Disease, American Board of Internal Medicine, #264970
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Military Service

July 1988 - July 1998	United States Army Reserve, Medical Laboratory Technician
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November 1990-May 1991	Operation Desert Storm, Saudi Arabian Theatre
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June 1993 & June 1994	United States Army Medical Research Institute of Infectious Diseases, Research Technician Biologic Weapons Division.
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Employment History

June 1995- Nov 1996	Abbott Laboratories, Viral Reagent Development
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Nov 1996-Aug1998	Abbott Laboratories, Antibody and Cardiac Assay Development
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Faculty Appointments

2009 - 2012	Clinical Instructor, Feinberg School of Medicine, Northwestern University, Department of Medicine, Division of Infectious Disease
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2012- Present	Assistant Professor, Feinberg School of Medicine, Northwestern University, Department of Medicine, Division of Infectious Disease
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2014- Present	Assistant Professor, Feinberg School of Medicine, Northwestern University, Department of Medical Education, Division of Medical Education
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Hospital Appointments

2005-2009	Emergency Room Physician, Hines Veterans Administration Hospital, Hines IL
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2009 - Present	Attending Physician, Northwestern Memorial Hospital, Chicago IL
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Administrative Appointments

August 2009 – April 2010	Co-Director of Emergency Influenza Clinic, Northwestern Memorial Hospital
2009 - 2012	Associate Clerkship Director Junior Subspecialty Medicine (M3). Northwestern University Feinberg School of Medicine
2009 - Present	Infectious Disease Clinic Quality Committee Northwestern Memorial Hospital, Infectious Disease and HIV/AIDS Clinic
2010 - 2012	Curriculum Renewal Committee; Northwestern University Feinberg School of Medicine
2011-Present	Inpatient Scheduler for the Department of Medicine
2011-Present	Guidelines Panel Member; <i>National Comprehensive Cancer Network</i> ; Prevention and Treatment of Cancer Related Infections
2012 - Present	Director Infectious Disease Senior Student (M4) Elective. Northwestern University Feinberg School of Medicine
2012-Present	Clerkship Director Senior Medicine Sub-internship. Northwestern University Feinberg School of Medicine.
2011- Present	Core Faculty Member; Internal Medicine Residency Program, Northwestern University Feinberg School of Medicine, Department of Internal Medicine
2013-Present	Intern Selection Committee, Internal Medicine Residency Program, Northwestern University Feinberg School of Medicine, Department of Internal Medicine

Awards and Honors

2005-2006	Chief Resident, LUMC Internal Medicine
2005	Robert Carlson Award for Medical Excellence
2008	Design Industry Foundation Fighting AIDS Fellow award
2008	Distinguished Teaching Award, Northwestern University Feinberg School of Medicine
2009	Teaching Award, Department of Medicine, Northwestern

University Feinberg School of Medicine

2010	Attending Teaching Award, Department of Medicine, Northwestern University Feinberg School of Medicine
2010	Attending Teaching Award, Division of Infectious Disease, Northwestern University Feinberg School of Medicine
2013	Attending Teaching Award, Division of Infectious Disease, Northwestern University Feinberg School of Medicine
2014	<i>Roy Patterson Teaching Award: Outstanding Teacher Award</i> , Internal Medicine Residents, Northwestern University Feinberg School of Medicine
2015	Attending Teaching Award, Department of Medicine, Northwestern University Feinberg School of Medicine
2016	<i>Roy Patterson Teaching Award: Outstanding Teacher Award</i> , Internal Medicine Residents, Northwestern University Feinberg School of Medicine
2017	Attending Teaching Award, Division of Infectious Disease, Northwestern University Feinberg School of Medicine
2017	<i>John X. Thomas, Jr Best Teachers of Feinberg Award</i> , Northwestern University, Feinberg School of Medicine

Professional Society Memberships

2008-present	American College of Physicians, Member
2010-present	Infectious Disease Society of America, Member
2013-present	Alliance for Academic Internal medicine/Clerkship Directors in Internal Medicine

Teaching

August 2005-May 2006	<i>Introduction to Medicine</i> . Instructor for second year medical students at Stritch School of Medicine.
Sept. 2005-Aug. 2006	<i>Mechanisms of Disease</i> . Instructor for second year medical students at Stritch School of Medicine.

July 2006- Present	Direct supervision and ward teaching of residents and medical students rotating through the infectious disease consultation services at Northwestern Memorial Hospital.
July 2007 & July 2008	<i>Neutropenic Fever.</i> Core curriculum lecture for Northwestern Memorial Hospital internal medicine house staff.
August 2007-July 2008	<i>Infections in the Returning Traveler.</i> Infectious Disease Core Curriculum lecture for rotating medical students and residents rotating through the infectious disease consultation services at Northwestern Memorial Hospital.
August 2007-Present	<i>Sexually Transmitted Infections.</i> Infectious Disease Core Curriculum lecture for rotating medical students and residents rotating through the ID service at Northwestern Memorial Hospital.
March 2008-May 2008	<i>Problem Based Learning.</i> Instructor for first year medical students at the Feinberg School of Medicine. Topics included psychiatry, neurology, and dermatology.
Sept. 2008-Nov.2008	<i>Problem Based Learning.</i> Instructor for second year medical students at the Feinberg School of Medicine. Topics included cardiology, nephrology, and microbiology.
Sept. 2009-Oct.2009	<i>Problem Based Learning.</i> Instructor for second year medical students at the Feinberg School of Medicine. Topics included immunology and microbiology.
Aug 2009—2013	Specialty Case conference for 3 rd year medical students. Lead 3 rd year medical students during their medicine subspecialty rotations.
Sept. 2010-Oct.2010	<i>Problem Based Learning.</i> Instructor for second year medical students at the Feinberg School of Medicine. Topics included immunology and microbiology.
Sept. 2011-Oct 2011	<i>Problem Based Learning.</i> Instructor for second year medical students at the Feinberg School of Medicine. Topics included immunology and microbiology.
Sept. 2012-Oct 2011	<i>Problem Based Learning.</i> Instructor for second year

medical students at the Feinberg School of Medicine.
Topics included immunology and microbiology.

Scholarly Bibliography

a. Original, Peer-Reviewed Research Articles

1. Watson WA, Rhodes NJ, Echenique IA, **Angarone MP**, Scheetz MH. Resolution of acyclovir-associated neurotoxicity with the aid of improved clearance estimates using a Bayesian approach: A case report and review of the literature. *J Clin Pharm Ther*. 2017 Jun;42(3):350-355. doi: 10.1111/jcpt.12520. Epub 2017 Mar 29. PMID: 28370067
2. Trinh SA, Echenique IA, Penugonda S, **Angarone MP**. Optimal strategies for the diagnosis of community-onset diarrhea in solid organ transplant recipients: Less is more. *Transpl Infect Dis*. 2017 Apr;19(2). doi: 10.1111/tid.12673. Epub 2017 Mar 16. PMID: 28170133
3. Echenique IA, **Angarone MP**, Gordon RA, Rich J, Anderson AS, McGee EC, Abicht TO, Kang J, Stosor V. Invasive fungal infection after heart transplantation: A 7-year, single-center experience. *Transpl Infect Dis*. 2017 Feb;19(1). doi: 10.1111/tid.12650. PMID: 27943503
4. Baden LR, Swaminathan S, **Angarone M**, Blouin G, Camins BC, Casper C, Cooper B, Dubberke ER, Engemann AM, Freifeld AG, Greene JN, Ito JI, Kaul DR, Lustberg ME, Montoya JG, Rolston K, Satyanarayana G, Segal B, Seo SK, Shoham S, Taplitz R, Topal J, Wilson JW, Hoffmann KG, Smith C. Prevention and Treatment of Cancer-Related Infections, Version 2.2016, NCCN Clinical Practice Guidelines in Oncology. *J Natl Compr Canc Netw*. 2016 Jul;14(7):882-913. PMID: 27407129
5. Young PG, Rubin J, **Angarone M**, Flaherty J, Penugonda S, Stosor V, Ison MG. Ganciclovir-resistant cytomegalovirus infection in solid organ transplant recipients: a single-center retrospective cohort study. *Transpl Infect Dis*. 2016 Jun;18(3):390-5. doi: 10.1111/tid.12537. Epub 2016 Jun 9. PMID: 27037651
6. Echenique IA, Penugonda S, Stosor V, Ison MG, **Angarone MP**. Diagnostic Yields in Solid Organ Transplant Recipients Admitted with Diarrhea. *Clin Infect Dis*. 2015 Mar 1;60(5):729-37. doi: 10.1093/cid/ciu880. Epub 2014 Nov 3. PMID: 25371488
7. Echenique IA, **Angarone MP**, Bolon MK. A bridge too far.. *Transpl Infect Dis*. 2014 Oct;16(5):866-7. doi: 10.1111/tid.12258. Epub 2014 Jul 1. No

abstract available. PMID: 24981019

8. Gounaris E, Martin J, Ishihara Y, Khan MW, Lee G, Sinh P, Chen EZ, **Angarone M**, Weissleder R, Khazaie K, Barrett TA. Fluorescence endoscopy of cathepsin activity discriminates dysplasia from colitis. *Inflamm Bowel Dis*. 2013 Jun;19(7):1339-45. doi: 10.1097/MIB.0b013e318281f3f8. PMID: 23591598
9. Theodoropoulos N, Wang E, Penugonda S, Ladner DP, Stosor V, Leventhal J, Friedewald J, **Angarone M**, Ison MG. BK Virus Replication and Nephropathy After Alemtuzumab-Induced Kidney transplantation. *Am J Transplant*. 2013 Jan;13(1):197-206. doi: 10.1111/j.1600-6143.2012.04314.x. Epub 2012 Nov 8. PMID: 23136975

b. Editorials, Reviews, Chapters, Books, Commentaries

1. Santoiemma PP, Dinwiddie SH, **Angarone MP**. Infectious disease complications in people who inject drugs. *Jan 1 2017 Psychiatric Annals* 2017 Jan;47(1);33-37.
2. **Angarone MP**, Sheahan A, Kamboj M. Norovirus in Transplantation. *Curr Infect Dis Rep*. 2016 Jun;18(6):17. PMID:27115700
3. Smith L, **Angarone M**. Sexually Transmitted Disease. *Urol Clin North Am*. 2015 Nov;42(4):507-18. PMID: 26475947
4. **Angarone M**, Ison MG. Diarrhea in solid organ transplant recipients. *Curr Opin Infect Dis* 2015 Aug;28(4):308-16. PMID: 26098506
5. **Angarone M**. Fungal Infections in Cancer Patients. *Infectious Complications in Cancer Patients*, Editor Valentina Stosor, Teresa R. Zembower. Springer, 2014
6. Flaherty J, **Angarone M**. *Acute Diarrhea and Vomiting*. Problem-based Approach to Gastroenterology and Hepatology. Editor John N. Plevris, Colin W. Howden. Wiley-Blackwell, 2012.
7. **Angarone, M**. Epidemiology and Prevention of Viral Infections in Patients with Hematologic Malignancies. *Infectious Disorders-Drug Targets*, 2011 Feb;11(1):27-33. [Invited] PMID: 21303338
8. **Angarone M**, Ison MG. Prevention and early treatment of opportunistic viral infections in patients with leukemia and allogeneic stem cell transplantation recipients. *J Natl Compr Canc Netw*. 2008;6(2):191-201. PMID: 18319051

c. Case reports, Technical Notes, Letters

1. Purpureocillium lilacinum tattoo-related skin infection in a kidney transplant recipient. Trinh SA, **Angarone MP**. Transpl Infect Dis. 2017 Jun;19(3). doi: 10.1111/tid.12689. Epub 2017 Apr 13. PMID: 28273390
2. Theodoropoulos N, **Angarone M**. Photo quiz. Lip lesion in a solid organ transplant recipient. Clin Infect Dis. 2012 May;54(9):1332, 1373-4. doi: 10.1093/cid/cir878. No abstract available. PMID: 22492319
3. **Angarone M**, Reddy P, Berggruen S, Noskin G. Dyspnea and Fatigue. Infectious Diseases in Clinical Practice. May 2007;15(3):178-182.

d. Proceedings and Non-refereed Papers

None

e. Software, World Wide Web-based Publications, Exhibits, Audiovisual or Other Teaching Material

None

f. Patents

None

g. Abstracts

1. **Angarone M**, Stosor V, Zembower T, Scarsi K, Burt RK. Infections (INFs) after autologous hematopoietic stem cell transplantation (HSCT) for refractory systemic lupus erythematosus (SLE). 46th IDSA-48th ICAAC Washington, D.C. October 26, 2008. [Poster K-1398]
2. Stosor V, Zembower T, **Angarone M**, McGee E, Scarsi K, Grady K, Cotts W, Ison M. Infections (INF) after heart transplantation (HT) with basiliximab induction: a single center experience. The International Society for Heart and Lung Transplantation 29th Annual Meeting. Paris, France. April 22, 2009.

Presentations

July 2009

Neutropenic Fever. Internal Medicine Resident Core Curriculum. Northwestern University, Feinberg School of Medicine.

May 25, 2010	<i>HIV Infection</i> . Internal Medicine Society, Medical Student Association. Northwestern University Feinberg School of Medicine.
August 9, 2010	<i>Neutropenic Fever</i> . Internal Medicine Resident Core Curriculum. Northwestern University, Feinberg School of Medicine.
December 16, 2010	<i>Update on Sexually Transmitted Infections</i> . Department of Urology, Northwestern University, Feinberg School of Medicine.
December 22, 2010	<i>Update on Influenza: Information for Internal Medicine Residents</i> . Department of Medicine, Internal Medicine Resident Lecture Series. Northwestern University, Feinberg School of Medicine.
January 19, 2011	<i>Primary Care in HIV: Cardiovascular Disease and Non-AIDS Related Malignancies</i> . 47 th Annual Year in Internal Medicine. Northwestern University, Feinberg School of Medicine.
January 27, 2011	<i>Firm Conference</i> . Department of Medicine. Northwestern University, Feinberg School of Medicine.
February 24, 2011	<i>The 100 Day Cough: Bordetella pertussis Infection in Adults</i> . Medical Grand Rounds, St. Catherine Hospital, 4321 Fir St, East Chicago, Indiana.
March 30, 2011	<i>Primary Care of the HIV Patient</i> . CME Conference. Northwestern Memorial Hospital, Northwestern Memorial Faculty Foundation.
April 27, 2011	<i>The 100 Day Cough: Bordetella pertussis Infection in Adults</i> . Medical Grand Rounds, St. Mary Medical Center, 1500 S. Lake Park, Hobart, Indiana.
May 27, 2011	<i>Primary Care of the HIV Patient</i> . CME Conference. Northwestern Memorial Hospital, Northwestern Memorial Physician's Group
July 12, 2011	<i>Diagnosis and Management of Opportunistic Infections in Individuals infected with HIV</i> . Advanced ART Physicians Training. Dar es Salaam, Tanzania

July 13, 2011	<i>AIDS Related malignancies, Detection and Management.</i> Advanced ART Physicians Training. Dar es Salaam, Tanzania
September 23, 2011	<i>Tick and Mosquito Borne Illnesses: A Primer for the Primary Care Physician.</i> 64 th Annual Ward E. Perrin Clinical Refresher Course. Midwestern University.
September 28, 2012	<i>Overview of Antibiotics.</i> Medical Student Internal Medicine Society, Northwestern University Feinberg School of Medicine.
October 11, 2012	<i>ID Update: West Nile Virus and Recurrent C. difficile Infection.</i> 8 th Annual Midwest Hospital Medicine Conference, Northwestern Memorial Hospital
January 18, 2013	<i>Fungal Infections in Hemetologic Stem Cell Transplant Recipients.</i> Current Topics in HSCT Series. Northwestern University Feinberg School of Medicine
September 28, 2012	<i>Overview of Antibiotics.</i> Medical Student Internal Medicine Society, Northwestern University Feinberg School of Medicine.
October 11, 2012	<i>ID Update: West Nile Virus and Recurrent C. difficile Infection.</i> 8 th Annual Midwest Hospital Medicine Conference, Northwestern Memorial Hospital
January 18, 2013	<i>Fungal Infections in Hemetologic Stem Cell Transplant Recipients.</i> Current Topics in HSCT Series. Northwestern University Feinberg School of Medicine
March 27, 2013	<i>Overview of Adult Vaccinations and the understanding the 2013 ACIP Adult Vaccine Guidelines.</i> Medical Grand Rounds, St. Mary Medical Center, 1500 S. Lake Park, Hobart, Indiana
May 1, 2013	Global Impact f Diarrheal Illness. Speaker for Northwestern University Department of Global Health
May 10, 2013	<i>Viral Infections in Hemetologic Stem Cell Transplant Recipients.</i> Current Topics in HSCT Series. Northwestern University Feinberg School of Medicine
July 23, 2013	<i>Diagnosis and Management of Opportunistic Infections in</i>

Individuals infected with HIV. Advanced ART Physicians Training. Dar es Salaam, Tanzania

- July 24, 2013 *AIDS Related malignancies, Detection and Management. Advanced ART Physicians Training. Dar es Salaam, Tanzania*
- August 28, 2013 *Recurrent Clostridium difficile Infection: Antibacterials and Beyond. Medical Grand Rounds, Presence St. Joe's Hospital, 2913 N. Commonwealth Av, Chicago IL*
- Jan 15, 2014 *Update on Screening Tests in Infectious Disease: Universal HIV Testing, HCV testing in "Baby Boomers: and Tuberculosis Screening.. 50th Annual Year in Internal Medicine. Northwestern University, Feinberg School of Medicine.*
- Jan 21, 2014 *Management of Recurrent Clostridium difficile Infection. Medical Grand Rounds, Presence St. Francis's Hospital, 355 Ridge Av, Evanston IL*
- Jan 15, 2014 *Update on Screening Tests in Infectious Disease: Universal HIV Testing, HCV testing in "Baby Boomers: and Tuberculosis Screening. Medical Grand Round, Western Michigan University School of Medicine, Kalamazoo, MI.*
- Sept 20, 2015 *Epidemiology of diarrhea in transplant recipients. ICAAC 2015. San Diego, CA. Presenter and Convener.*
- Nov 16, 2015 *Lunch and Learn: Top 5 Things You Need to Know About Influenza. Northwestern Medicine Lunch and Learn CME. Chicago, IL.*
- Feb 22, 2016 *Lunch and Learn: Zika Virus: What the Primary Provider Needs to Know. Northwestern Medicine Lunch and Learn CME. Chicago, IL.*
- Mar 31, 2016 *Vector Borne Infections. Grand Rounds, Northwestern Medicine Lake Forrest hospital. Lake Forrest, IL*
- Sept 30, 2016 *Antibiotic Stewardship in Clinical Practice. Grand Rounds. Olympia Fields Hospital. Olympia Fields, IL.*
- Oct 25, 2016 *An Update on Zika Virus. Nursing Grand Rounds.*

Northwestern Medicine. Chicago, IL.

Dec 16, 2016 *Updates in HIV Infection*. 12th Annual Midwestern hospital
Medicine Conference. Northwestern University Feinberg
School of Medicine. Chicago, IL

Sept 15, 2017 *Update on Syphilis Testing*, Northwestern Medicine
Hospitalist Grand Rounds, Northwestern Medicine,
Chicago, IL

Oct 12, 2017 *Management of Antibiotic Resistant Infections*, Pri-Med
2017 Midwest Annual Conference, Rosemont IL

Oct 13, 2017 *Ask the Expert: Infectious Diseases*, Pri-Med 2017 Midwest
Annual Conference, Rosemont IL

Oct 20, 2017 *Interactive Infectious Disease Cases*, 13th Annual
Midwestern hospital Medicine Conference. Northwestern
University Feinberg School of Medicine. Chicago, IL